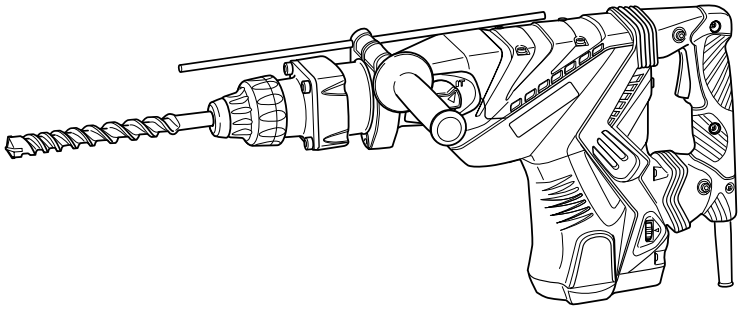
HITACHI

Rotary Hammer
Model DH 50MRY • DH 50MR

Handling instructions



Note:
Before using this Electric Power Tool, carefully read through these HANDLING INSTRUCTIONS to ensure efficient, safe operation. It is recommended that these INSTRUCTIONS be kept readily available as an important reference when using this power tool.

Hitachi Koki

GENERAL SAFETY RULES

WARNING!
Read all instructions
Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
The term "power tool" in all of the warnings listed below refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

SAVE THESE INSTRUCTIONS

1) Work area

a) Keep work area clean and well lit.
Cluttered and dark areas invite accidents.

b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
Power tools create sparks which may ignite the dust of fumes.

c) Keep children and bystanders away while operating a power tool.
Distractions can cause you to lose control.

2) Electrical safety

a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.
Unmodified plugs and matching outlets will reduce risk of electric shock.

b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.
There is an increased risk of electric shock if your body is earthed or grounded.

c) Do not expose power tools to rain or wet conditions.
Water entering a power tool will increase the risk of electric shock.

d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.
Damaged or entangled cords increase the risk of electric shock.

e) When operating a power tool outdoors, use an extension cord suitable for outdoor use.
Use of a cord suitable for outdoor use reduces the risk of electric shock

3) Personal safety

a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.
A moment of inattention while operating power tools may result in serious personal injury.

b) Use safety equipment. Always wear eye protection.
Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

c) Avoid accidental starting. Ensure the switch is in the off position before plugging in.
Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.

d) Remove any adjusting key or wrench before turning the power tool on.
A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e) Do not overreach. Keep proper footing and balance at all times.
This enables better control of the power tool in unexpected situations.

f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.
Loose clothes, jewellery or long hair can be caught in moving parts.

g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.
Use of these devices can reduce dust related hazards.

4) Power tool use and care

a) Do not force the power tool. Use the correct power tool for your application.
The correct power tool will do the job better and safer at the rate for which it was designed.

b) Do not use the power tool if the switch does not turn it on and off.
Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.
Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.
Power tools are dangerous in the hands of untrained users.

e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation.
If damaged, have the power tool repaired before use.
Many accidents are caused by poorly maintained power tools.

f) Keep cutting tools sharp and clean.
Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.
Use of the power tool for operations different from intended could result in a hazardous situation.

5) Service

a) Have your power tool serviced by a qualified repair person using only identical replacement parts.
This will ensure that the safety of the power tool is maintained.

PRECAUTION
Keep children and infirm persons away.
When not in use, tools should be stored out of reach of children and infirm persons.

PRECAUTIONS ON USING ROTARY HAMMER

1. **Wear ear protectors**
   Exposure to noise can cause hearing loss.
2. Do not touch the bit during or immediately after operation. The bit becomes very hot during operation and could cause serious burns.
3. Before starting to break, chip or drill into a wall, floor or ceiling, thoroughly confirm that such items as electric cables or conduits are not buried inside.
4. **Use auxiliary handles supplied with the tool.**
   Loss of control can cause personal injury.
5. Always hold the body handle and side handle of the power tool firmly. Otherwise the counterforce produced may result in inaccurate and even dangerous operation.
6. Wear a dust mask
   Do not inhale the harmful dusts generated in drilling or chiseling operation. The dust can endanger the health of yourself and bystanders.

SPECIFICATIONS

Model	DH50MRY	DH50MR
Voltage (by areas)*	(110V, 115V, 120V, 127V, 220V, 230V, 240V) ∿	
Power input	1400 W*	
Capacity	Drill bit: 50 mm Core bit: 160 mm	
No load speed	110 – 230 min^{-1}	
Full-load impact rate	1050 – 2150 min^{-1}	
Weight (without cord, side handle)	10.5 kg	10.0 kg

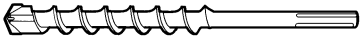
*Be sure to check the nameplate on product as it is subject to change by areas.

STANDARD ACCESSORIES

(1) Case 1
(2) Side Handle 1
(3) Stopper 1
(4) Hammer Grease A 1
Standard accessories are subject to change without notice.

OPTIONAL ACCESSORIES (sold separately)

1. Through-hole drilling (Rotation + Hammering)

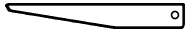


(1) Drill bit (SDS max shank)

Outer diameter (mm)	Overall length (mm)
16	340, 540
19	
22	320, 520
25	
28	370, 570
32	
38	
40	

2. Anchor hole drilling (Rotation + Hammering)

Drill bit (Taper shank)



(3) Cotter
+

(1) Drill bit (taper shank)
External dia.: 11, 12.3, 12.7, 14.3, 14.5, 17.5 mm

(2) Taper shank adapter (SDS max shank)

Taper shank adapter	Application drill bit
Morse taper (No. 1)	Drill bit (taper shank) 11, 12.3, 12.7, 14.3, 14.5, 17.5 mm

Adapter for SDS-plus shank bit

(1) Drill bit (SDS-plus shank)

(2) Adapter for SDS-plus shank bit (SDS max shank)

3. Large dia. hole boring (Rotation + Striking)

(Guide plate) (1) Center pin (2) Core bit (3) Core bit shank

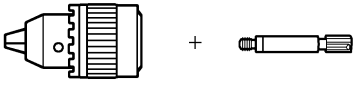
(1) Center pin
- Applied to core bits from 38 mm to 150 mm
- Applied to core bits 32 mm and 35 mm

NOTE:
Do not use core bits 25 mm or 29 mm.

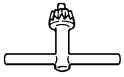
(2) Core bit
- External dia. 25, 29, 32, 35, 38, 45, 54, 64, 79, 94, 105, 120, 150 mm
  (with guide plate, not applicable to cores 25 mm or 29 mm)

(3) Core bit shank
- Applied to core bits above 38 mm
- Applied to core bits below 35 mm

4. Drilling holes .... For drilling metal and wooden materials



13 mm drill chuck (13VLA) + Chuck adapter (SDS max shank)

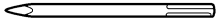


Chuck wrench

5. Bolt placing operation with Chemical Anchor (Rotation + Hammering)

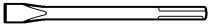
(Standard socket on the market) + (SDS max shank)
12.7 mm Chemical Anchor Adaptor
19 mm Chemical Anchor Adaptor

6. Crushing (Hammering)



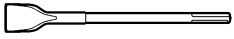
(1) Bull point
Overall length: 280, 400 mm

7. Groove digging and edging (Hammering)



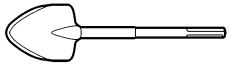
(1) Cold chisel
Overall length: 280, 400 mm

8. Asphalt cutting (Hammering)



(1) Cutter

9. Scooping Work (Hammering)

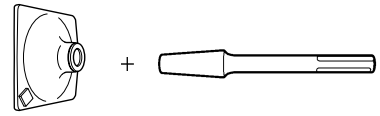


(1) Scoop

10. Surface Roughing (Hammering)

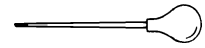
(1) Bushing Tool (2) Shank

11. Tamping (Hammering)



(1) Rammer 150 × 150 mm (2) Shank

12. Syringe (for chip removal)



○ Hammer grease A
500 g (in a can)
70 g (in a green tube)
30 g (in a green tube)

Optional accessories are subject to change without notice.

APPLICATIONS

○ Drilling holes in concrete
○ Drilling anchor holes
○ Crushing concrete, chipping, digging, and squaring (by applying optional accessories)

PRIOR TO OPERATION

1. **Power source**
   Ensure that the power source to be utilized conforms to the power requirements specified on the product nameplate.
2. **Power switch**
   Ensure that the power switch is in the OFF position. If the plug is connected to a power receptacle while the power switch is in the ON position, the power tool will start operating immediately, which could cause a serious accident.
3. **Extension cord**
   When the work area is removed from the power source, use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable.
4. **How to install tool**

NOTE:
For tools such as a bull point and a cold chisel, use only Hitachi genuine parts.

(1) Clean, then smear the tool shank with the grease provided in the green tube (**Fig. 1**).

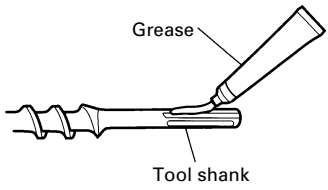


Fig. 1

(2) To attach the tool (SDS max shank), insert it into the hole until it contacts the innermost end of the hole as illustrated in **Fig. 2**.
If you continue to turn the tool with slight pressure, you can feel a spot where there is a hitch. At that spot, pull the grip to the direction of an arrow mark and insert the tool all the way until it hits the innermost end.
Releasing the grip reverts the grip and secures the tool in place.

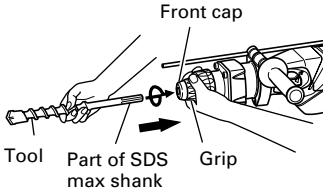


Fig. 2

(3) Pull the tool to make sure it is locked completely.
(4) To remove the tool, fully pull the grip in the direction of the arrow and pull out the tool.

5. Regulating the number of rotations and hammering (Fig. 3)
This Rotary Hammer is equipped with a built-in electronic control circuit that can adjust and regulate the number of rotations and times of hammering. This Rotary Hammer can be used by adjusting the dial, depending upon the contents of operation, such as boring holes into fragile materials, chipping, centering, etc.
The scale '1' of the dial is designed for a minimum speed with the number of 110 rotations per minute and 1050 times of blow per minute. The scale '6' is designed for a maximum speed with the number of 230 rotations per minute and 2150 times of blow per minute.

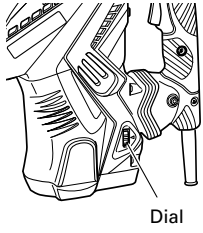


Fig. 3

CAUTION:
Do not adjust the dial during operation. Doing so can result in injury because the Rotary Hammer must be held by only one hand, disabling the steady control of the Rotary Hammer.

HOW TO USE THE ROTARY HAMMER

1. How to drill holes (Fig. 4)
(1) Pull the switch trigger after applying the drill bit tip to the drilling position.
(2) It is unnecessary to forcibly press the rotary hammer main body. It is sufficient to slightly press the rotary hammer to an extent that shavings are freely discharged.

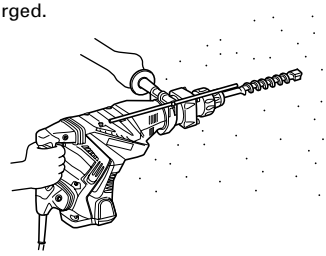


Fig. 4

CAUTION:
Although this machine is equipped with a safety clutch, if the drill bit becomes bound in concrete or other material, the resultant stoppage of the drill bit could cause the machine body to turn in reaction. Ensure that the main handle and side handle are gripped firmly during operation.

2. How to chisel or demolish (Fig. 5)
By applying the drill bit tip to the chiseling or demolishing position, operate the rotary hammer by utilizing its empty weight.
Forcible pressing or thrusting is unnecessary.

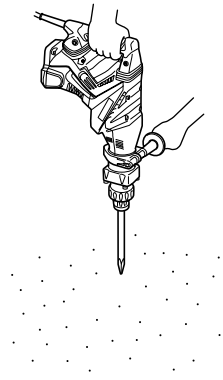


Fig. 5

3. When drilling at "rotation + hammering":
CAUTION:
If you switch the selector lever during motor rotation, the tool can start to rotate abruptly, resulting in unexpected accidents. Be sure to switch the selector lever when the motor is at a complete stop.

(1) Switching to "rotation + hammering"
(a) Push the button, release lock and turn the selector lever clockwise.
(b) Align ▲ of the selector lever and of the lever holder as illustrated in **Fig. 6**.
(c) Release the button to lock the selector lever.

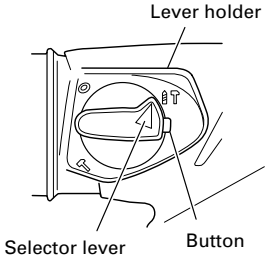


Fig. 6

NOTE:
Turn the selector lever (do not push the button) to check if it is completely locked and make sure that it does not turn.

4. When demolishing and chiseling at "hammering":

CAUTION:

○ If the selector lever is switched during motor rotation, the tool can start to rotate abruptly, resulting in unexpected accidents. Make sure to switch the selector lever when the motor is at a complete stop.

○ If the bull point or cold chisel is used at the position of "rotation + hammering", the tool can start to rotate, resulting in unexpected accidents. Make sure that they are used at the position of "hammering".

(1) Switching to "hammering"
(a) Push the button, release lock and turn the selector lever counterclockwise.
(b) Align ▲ of the selector lever and of the lever holder as illustrated in **Fig. 7**.
(c) Release the button to lock the selector lever.

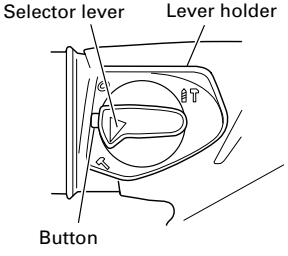


Fig. 7

NOTE:
Turn the selector lever (do not push the button) to check if it is completely locked and make sure that it does not turn.

(2) When fixing working positions of tools such as cold chisel, etc.,
(a) Push the button, release lock and turn the selector lever.
Align ▲ of the selector lever and ◎ of the lever holder as illustrated in **Fig. 8**.
(b) Release the button to lock the selector lever.

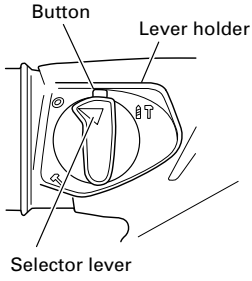


Fig. 8

(c) Turn the grip as illustrated in **Fig. 9** and fix the tool to the desired working direction.

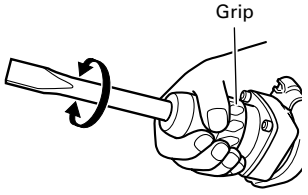


Fig. 9

(d) Switch the selector lever to "hammering" according to the procedures mentioned in the above item (1) and secure the position of the tool.

5. Install the stopper (Fig. 10)

(1) Loosen the side handle and insert the straight portion of the stopper into the handle bolt hole.
(2) Move the stopper to the specified position and rotate the grip of the side handle clockwise to fix the stopper.

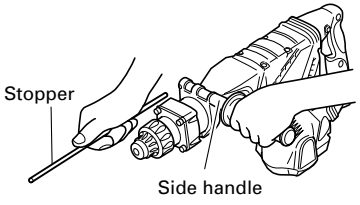


Fig. 10

6. Warming up (Fig. 11)
The grease lubrication system in this unit may require warming up in cold regions.
Position the end of the bit so makes contact with the concrete, turn on the switch and perform the warming up operation. Make sure that a hitting sound is produced and then use the unit.

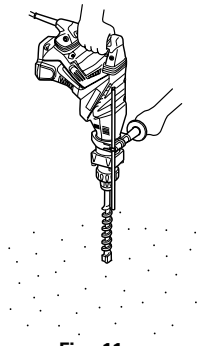


Fig. 11

CAUTION:

When the warming up operation is performed, hold the side handle and the main body securely with both hands to maintain a secure grip and be careful not to twist your body by the jammed drill bit.

DRILLING AND DRIVING-IN OPERATIONS FOR ANCHORS

1. When a taper shank adapter is used. (Fig. 12)

(1) Install drill bit with taper shank in the taper shank adapter.

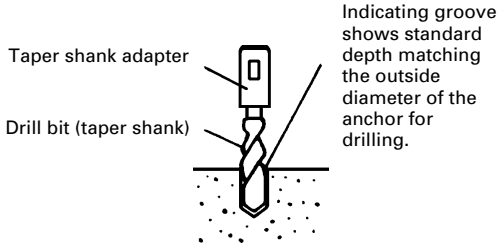

Taper shank adapter
Drill bit (taper shank)
Indicating groove shows standard depth matching the outside diameter of the anchor for drilling.

Fig. 12

(2) Turn the power on and drill a base hole to the depth sounded by indicating groove on the drill bit.

(3) After cleaning out dust with a syringe, attach the plug to the anchor tip and drive in the anchor with a manual hammer.

(4) To remove the drill bit (taper shank), insert the cotter into the slot of the taper shank adapter and strike the head of the cotter with a manual hammer supporting on a rest. (**Fig. 13**)

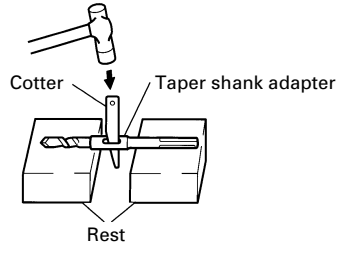


Fig. 13

USING DRILL CHUCK, CHUCK ADAPTER

Note that this machine can be used at "rotation only" if separately sold parts such as drill chuck and chuck adapter are attached. Use it with the selector lever positioned at "rotation + hammering".

CAUTION:

During operation, be sure to grip the handle and the side handle firmly to prevent your body from swaying.

(1) Switching to "rotation + hammering"
For switching to "rotation + hammering", follow the same procedures mentioned in [3. When drilling at "rotation + hammering"].

(2) Attaching chuck adapter to drill chuck (**Fig. 14**)
(a) Attach the chuck adapter to the drill chuck.
(b) The SDS max shank of the chuck adapter is equivalent to the drill bit. Therefore, follow the same procedure as [How to install tool] for attaching and detaching.

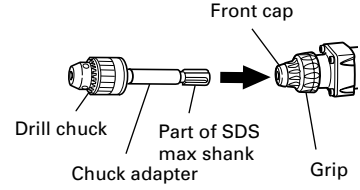


Fig. 14

(3) Drilling
(a) Even if you apply more-than-required pressure to the machine body, drilling can never be performed as quickly as you expect. Applying more force or pressure to the machine body than what is needed, on the contrary, damages the drill tip, resulting in the declined working efficiency and shortened life of this machine.
(b) A drill can snap sometimes when drilling is almost finished. It is important to relax your thrusting pressure when drilling is nearing the end.

HOW TO HANDLE A CORE BIT

When a core bit is used, large diameter holes and blind holes can be drilled. In this case, use optional accessories for core bits (such as a center pin and core bit shank) for more efficient operation.

1. Mounting

CAUTION:

Prior to mounting a core bit, always disconnect the plug from the power supply receptacle.

(1) Mount the core bit on the core bit shank. (**Fig. 15**) Before that, feed oil to the screw portion of core bit shank for easy dismounting.

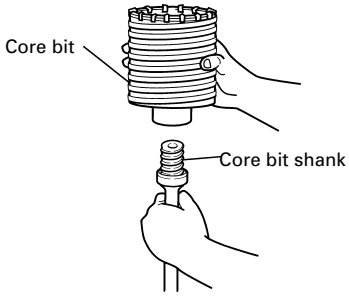


Fig. 15

(2) Mount the core bit shank on the main body in the same manner as in mounting the drill bit and the bull point. (**Fig. 16**)

Fig. 16

(3) Insert the center pin into the guide plate until it reaches the extremity.
(4) Fit in the guide plate by aligning its concaved portion with the core bit tip. When the position of the concave is shifted by turning the guide plate right or left, the guide plate never slips off even when the drill is used in a downward direction. (**Fig. 17**)

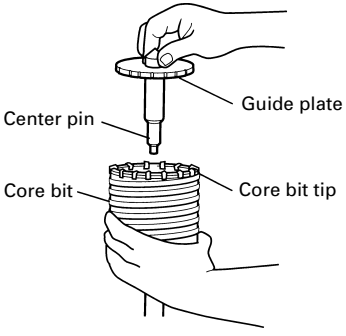


Fig. 17

2. Drilling holes
(1) Insert the plug into a receptacle.
(2) A spring is built in the center pin. By straightly and gently pressing it to the wall or floor surface, the entire surface of the core bit tip attains contact to start the hole drilling job. (**Fig. 18**)

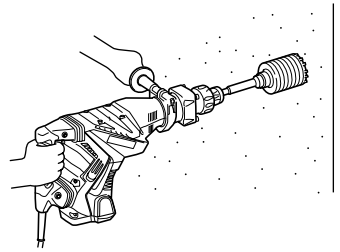


Fig. 18

(3) When the hole depth reaches approximately 5 mm, the hole position can be determined. Then remove the center pin and guide plate from the core bit and continue the hole drilling job.
CAUTION:
When removing the center pin and guide plate, always disconnect the plug from the receptacle.

3. How to dismount the core bit

○ By holding the rotary hammer (with the core bit inserted) in an upward position, drive the rotary hammer to repeat impact operation two or three times, whereby the screw is loosened and the rotary hammer becomes ready for disassembly. (**Fig. 19**)

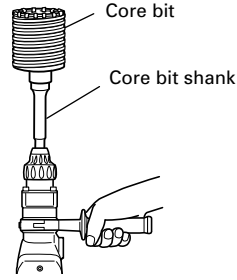


Fig. 19

○ Remove the core bit shank from the rotary hammer, hold the core bit with one hand, and strongly strike the head of the SDS max shank portion of the core bit shank with a manual hammer two or three times, whereby the round head screw is loosened and the rotary hammer is ready for disassembly. (**Fig. 20**)

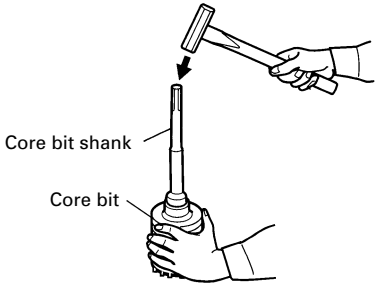


Fig. 20

HOW TO REPLACE GREASE

This machine is of full air-tight construction to protect against dust and to prevent lubricant leakage. Therefore, the machine can be used without lubrication for long periods. Replace the grease as described below.

1. **Grease replacement period**
   After purchase, replace grease after every 6 months of usage. Ask for grease replacement at the nearest Hitachi Authorized Service Center. Proceed for replacement of grease.
2. **Grease replenishment**
   CAUTION:
   Before replenishing the grease, turn the power off and pull out the power plug.

(1) Remove the crank cover and wipe off the grease inside. (**Fig. 21**)
(2) Supply 60 g of Hitachi Electric Hammer Grease A (Standard accessory, contained in tube) to the crank case.
(3) After replenishing the grease, install the crank cover securely.

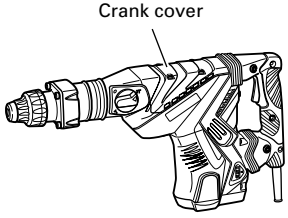


Fig. 21

NOTE:
The Hitachi Electric Hammer Grease A is of the low viscosity type. If necessary purchase from an Hitachi Authorized Service Center.

MAINTENANCE AND INSPECTION

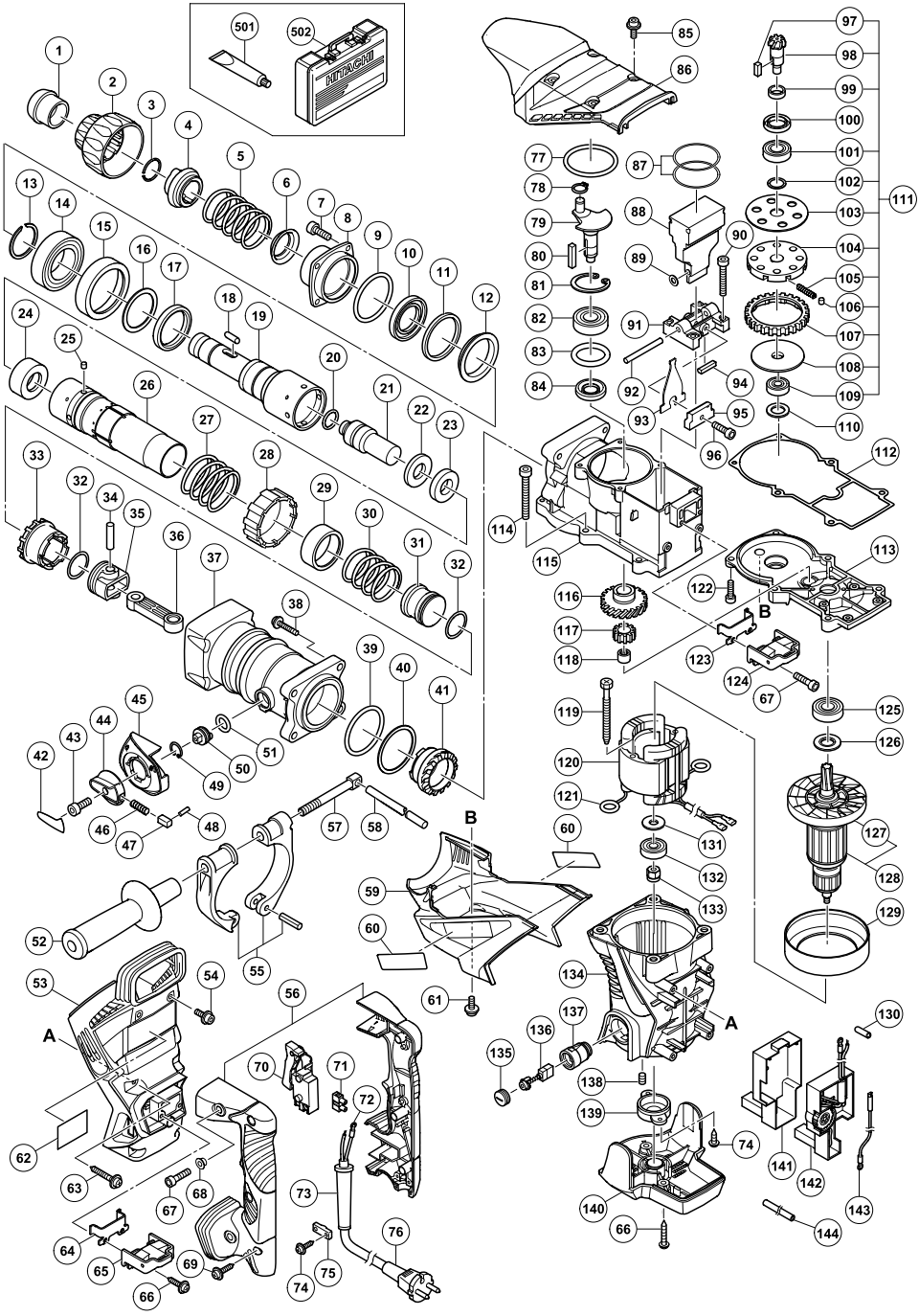
1. **Inspecting the tool**
   Since use of a dull tool will degrade efficiency and cause possible motor malfunction, sharpen or replace the tool as soon as abrasion is noted.
2. **Inspecting the mounting screws**
   Regularly inspect all mounting screws and ensure that they are properly tightened. Should any of the screws be loose, retighten them immediately. Failure to do so could result in serious hazard.
3. **Maintenance of the motor**
   The motor unit winding is the very "heart" of the power tool. Exercise due care to ensure the winding does not become damaged and/or wet with oil or water.
4. **Inspecting the carbon brushes**
   For your continued safety and electrical shock protection, carbon brush inspection and replacement on this tool should ONLY be performed by a Hitachi Authorized Service Center.
5. **Replacing supply cord**
   If the supply cord of Tool is damaged, the Tool must be returned to Hitachi Authorized Service Center for the cord to be replaced.
6. **Service parts list**

CAUTION:
Repair, modification and inspection of Hitachi Power Tools must be carried out by an Hitachi Authorized Service Center.
This Parts List will be helpful if presented with the tool to the Hitachi Authorized Service Center when requesting repair or other maintenance.
In the operation and maintenance of power tools, the safety regulations and standards prescribed in each country must be observed.

MODIFICATIONS:
Hitachi Power Tools are constantly being improved and modified to incorporate the latest technological advancements.
Accordingly, some parts may be changed without prior notice.

NOTE:
Due HITACHI's continuing program of research and development, the specifications herein are subject to change without prior notice.

DH50MRY

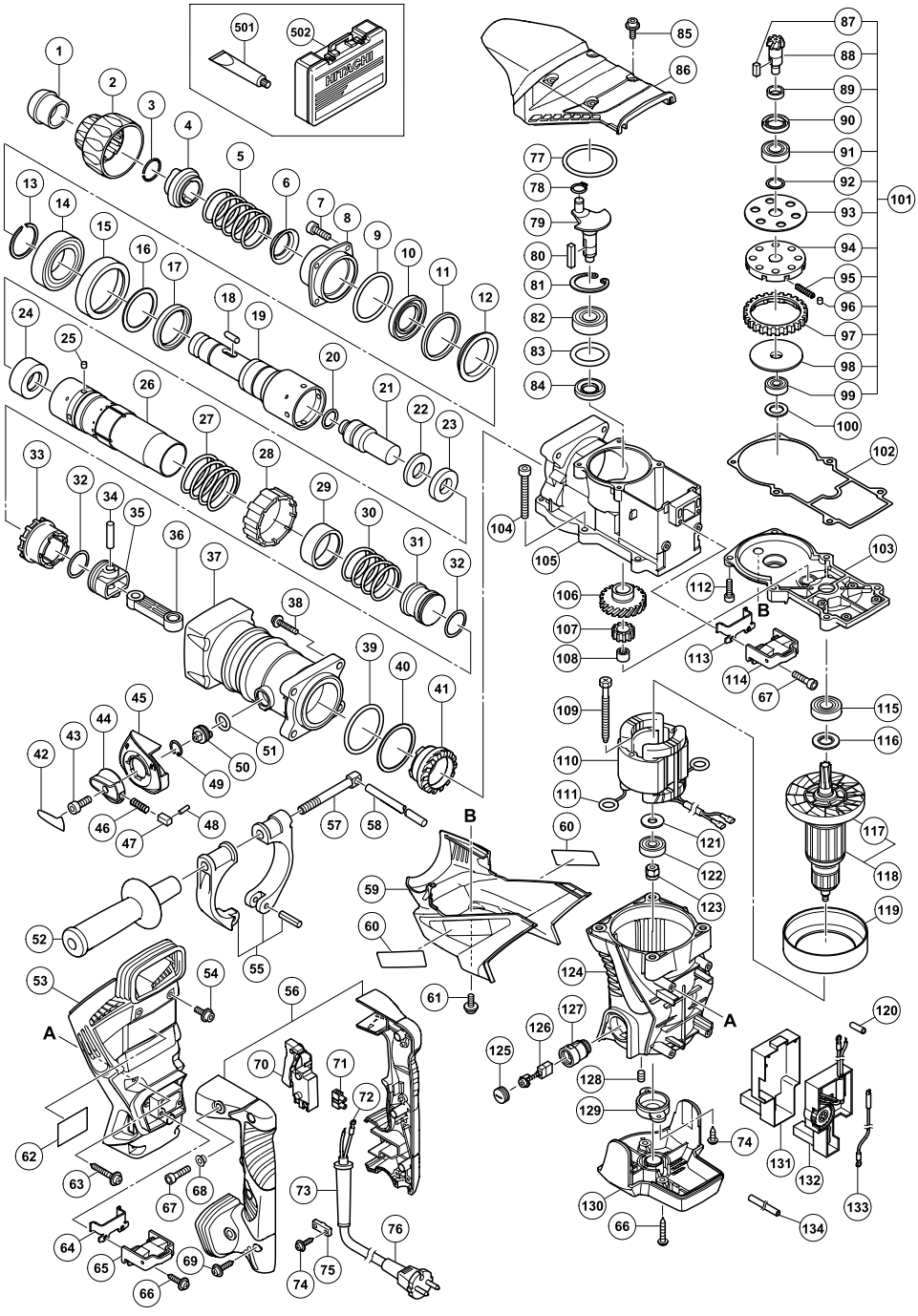


DH50MRY

ITEM NO.	PART NAME	Q'TY
1	FRONT CAP	1
2	GRIP	1
3	STOPPER RING	1
4	NEEDLE HOLDER	1
5	RETAINER SPRING	1
6	SPRING HOLDER	1
7	SEAL LOCK HEX SOCKET HD. BOLT M8×25	4
8	FRONT COVER	1
9	O-RING (S-70)	1
10	OIL SEAL (NBR710)	1
11	URETHANE RING	1
12	URETHANE RING HOLDER	1
13	RETAINING RING D40	1
14	BALL BEARING 6008CM	1
15	SLEEVE	1
16	THRUST WASHER (A)	1
17	RETAINER DAMPER	1
18	NEEDLE ROLLER D8×20	2
19	RETAINER SLEEVE	1
20	O-RING	1
21	SECOND HAMMER	1
22	DAMPER WASHER	1
23	DAMPER	1
24	DAMPER HOLDER	1
25	NEEDLE PIN D8×6	4
26	CYLINDER	1
27	LOCK SPRING	1
28	LOCK SLEEVE	1
29	SPRING HOLDER (B)	1
30	CLUTCH SPRING	1
31	STRIKER	1
32	O-RING	2
33	CLUTCH	1
34	PISTON PIN	1
35	PISTON	1
36	CONNECTING ROD	1
37	CYLINDER CASE	1
38	HEX. SOCKET HD. BOLT (W/FLANGE) M8×35	4
39	O-RING (D)	1
40	THRUST WASHER (B)	1
41	BEVEL GEAR	1
42	LEVER LABEL	1
43	SEAL LOCK HEX. SOCKET HD. BOLT M4×12	1
44	CHANGE LEVER	1
45	LEVER HOLDER	1
46	LEVER SPRING	1
47	PUSHING BUTTON	1
48	PIN D2×10	1
49	RETAINING RING FOR D20 HOLE	1
50	LEVER SHAFT	1
51	O-RING (P-16)	1
52	SIDE HANDLE	1
53	BACK COVER	1
54	HEX. SOCKET HD. BOLT (W/FLANGE) M5×14	2
55	HANDLE HOLDER	1
56	HANDLE (A). (B) SET	1
57	HANDLE BOLT	1
58	STOPPER ROD	1
59	HOOD	1
60	HITACHI LABEL	2
61	HEX. SOCKET HD. BOLT (W/FLANGE) M5×12	1
62	NAME PLATE	1
63	TAPPING SCREW (W/FLANGE) D5×30	4
64	GUIDE PLATE	1
65	HANDLE RUBBER	1
66	TAPPING SCREW (W/FLANGE) D5×25	2
67	SEAL LOCK HEX. SOCKET HD. BOLT M5×16	6
68	DISTANCE PIECE (B)	4
69	TAPPING SCREW (W/FLANGE) D4×25	3
70	SWITCH (B)	1
71	PILLAR TERMINAL	1
72	TERMINAL	1
73	CORD ARMOR	1

ITEM NO.	PART NAME	Q'TY
74	TAPPING SCREW (W/FLANGE) D4×16	4
75	CORD CLIP	1
76	CORD	1
77	CYLINDER O-RING (I.D 69.3)	1
78	RETAINING RING FOR D12 SHAFT	1
79	CRANK SHAFT	1
80	FEATHER KEY 3×3×25	1
81	RETAINING RING FOR D47 HOLE	1
82	BALL BEARING 6204DDCMPS2L	1
83	O-RING (B)	1
84	OIL SEAL	1
85	HEX. SOCKET HD. BOLT (W/FLANGE) M5×16	4
86	CRANK COVER	1
87	CYLINDER O-RING (B)	2
88	WEIGHT	1
89	WASHER	2
90	SEAL LOCK HEX. SOCKET HD. BOLT M5×30	4
91	BASE	1
92	WEIGHT PIN	1
93	LEAF SPRING	2
94	WEIGHT BUMPER	2
95	SPRING HOLDER	2
96	SEAL LOCK HEX. SOCKET HD. BOLT M5×16	2
97	FEATHER KEY 3×3×8	1
98	BEVEL PINION	1
99	COLLAR	1
100	OIL SEAL	1
101	BALL BEARING 6202DDCMPS2L	1
102	WASHER	1
103	WASHER (A)	1
104	GEAR HOLDER	1
105	SPRING (C)	8
106	NEEDLE PIN D6×6	8
107	SECOND GEAR	1
108	SPACER	1
109	BALL BEARING 629VVC2PS2L	1
110	BEARING WASHER (C)	1
111	SLIP CLUTCH ASS'Y	1
112	SEAL PACKING	1
113	GEAR COVER	1
114	SEAL LOCK HEX. SOCKET HD. BOLT M6×45	4
115	CRANK CASE	1
116	FIRST GEAR	1
117	SECOND PINION	1
118	NEEDLE BEARING (M661)	1
119	HEX. HD. TAPPING SCREW D5×50	2
120	STATOR ASS'Y	1
121	BRUSH TERMINAL	2
122	SEAL LOCK HEX. SOCKET HD. BOLT M6×22	2
123	GUIDE PLATE	1
124	HANDLE RUBBER	1
125	BALL BEARING 6202DDCMPS2L	1
126	DUST WASHER (B)	1
127	FAN	1
128	ARMATURE ASS'Y	1
129	FAN GUIDE	1
130	TUBE (D)	2
131	BEARING WASHER	1
132	BALL BEARING 6201VVCMPS2L	1
133	MAGNET	1
134	HOUSING ASS'Y	1
135	BRUSH CAP	2
136	CARBON BRUSH	2
137	BRUSH HOLDER	2
138	HEX. SOCKET SET SCREW M5×8	2
139	BEARING HOLDER	1
140	TAIL COVER	1
141	CASE (B)	1
142	CONTROLLER CIRCUIT	1
143	INTERNAL WIRE	1
144	VINYL TUBE	1
501	GREASE (A) FOR HAMMER.HAMMER DRILL (30G)	1
502	CASE (PLASTIC)	1

DH50MR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DH50MR

ITEM NO.	PART NAME	Q'TY
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2	GRIP	1
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62	NAME PLATE	1
63	TAPPING SCREW (W/FLANGE) D5×30	4
64	GUIDE PLATE	1
65	HANDLE RUBBER	1
66	TAPPING SCREW (W/FLANGE) D5×25	2
67	SEAL LOCK HEX. SOCKET HD. BOLT M5×16	6
68	DISTANCE PIECE (B)	4
69	TAPPING SCREW (W/FLANGE) D4×25	3
70	SWITCH (B)	1
71	PILLAR TERMINAL	1
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120	TUBE (D)	2
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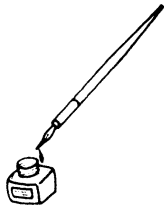
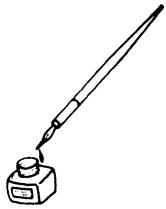
122	BALL BEARING 6201VVCMPS2L	1
123	MAGNET	1
124	HOUSING ASS'Y	1
125	BRUSH CAP	2
126	CARBON BRUSH	2
127	BRUSH HOLDER	2
128	HEX. SOCKET SET SCREW M5×8	2
129	BEARING HOLDER	1
130	TAIL COVER	1
131	CASE (B)	1
132	CONTROLLER CIRCUIT	1
133	INTERNAL WIRE	1
134	VINYL TUBE	1
501	GREASE (A) FOR HAMMER.HAMMER DRILL (30G)	1
502	CASE (PLASTIC)	1





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